

Application No. 10/632,987
Response to Office Action dated: June 8, 2005
Amendment dated July 19, 2005

Amendments to the Claims

1. (Canceled)

2. (Canceled)

3. (Canceled)

4. (Currently Amended) The oil circuit as recited in Claim 2 7, further comprising:
means for manual re-setting of a circuit breaker after an overload condition has
interrupted to electrical power to said power to said oil pump.

5. (Currently Amended) The oil circuit as recited in Claim 3 7, further comprising:
means for manual actuation of said oil change circuit drain.

6. (Original) The oil circuit as recited in Claim 4, further comprising:

(l) an oil drain in fluid communication with said outlet of said third
fluid conduit; and
(m) means for selectively opening said oil drain when said outlet of
said second conduit is closed during pre-ignition; and
(n) means for selectively opening said oil drain when said outlet of
said second conduit is closed during post-ignition.

7. (New) In a system for pre- and post- ignition lubrication of an internal
combustion engine having an oil reservoir and at least one oil passageway, from an oil
galley of the engine, communicating externally thereof, an oil circulation circuit auxiliary
to that of said engine, said circuit comprising:

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- (a) a first conduit having an inlet and an outlet, said inlet in fluid communication with an outlet of said oil passageway of said engine.
- (b) an auxiliary oil pump, including power means therefore, having an inlet and an outlet, said inlet in fluid communication with said outlet of said first conduit;
- (c) a second conduit having an inlet and an outlet, said inlet in fluid communication with said outlet of said pump, said outlet thereof in fluid communication with said engine oil passageway;
- (d) means, including timing means, for selectively actuating said power means of said pump for a selectable periods of time prior to ignition, after ignition stops, or both;
- (e) means for selectively closing said outlet of said second conduit at or upstream of, said inlet to said engine oil passageway, wherein said closing means are normally-open;
- (f) a third conduit having an inlet and an outlet, said inlet in fluid communication with said outlet of said second conduit, said inlet disposed upstream of said normally-open closing means of said second conduit;
- (g) a fourth conduit having an inlet and an outlet, said inlet in fluid communication with said outlet of said third conduit, said outlet thereof in fluid communication with said first conduit and upstream of said auxiliary oil pump;
- (h) a pressure relief valve disposed within said fourth conduit between said inlet and outlet thereof;
- (i) an oil drain in fluid communication with said outlet of said third fluid conduit;

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(j) means for selectively opening said oil drain when said outlet of said second conduit is closed during pre-ignition; and

(k) means for selectively opening said oil drain when said outlet of said second conduit is closed during post-ignition.